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7590 05/19/2005			EXAMINER	
Thomason, Moser & Patterson, LLP			USTARIS, JOSEPH G	
Attorneys at La Suite 100	ıw		ART UNIT	PAPER NUMBER
595 Shrewsbury Avenue			2616	
Shrewsbury, N	IJ 07702		DATE MAILED: 05/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Comments	09/772,288	SON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joseph G. Ustaris	2616				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of th period will apply and will expire SIX (6) MC y statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed or	1 <u>0 December 2004.</u>					
2a)⊠ This action is FINAL . 2b)□	This action is non-final.		•			
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-30 is/are pending in the application 4a) Of the above claim(s) is/are w 5) Claim(s) is/are allowed. 6) Claim(s) 1-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Ex	aminer.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection	<u> </u>	• •				
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	·	,).			
Priority under 35 U.S.C. § 119	,					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International I	uments have been received. uments have been received in e priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO-Paper No(s)/Mail Date	(48) Paper No	Summary (PTO-413) s(s)/Mail Date Informal Patent Application (PTO-152) 				

DETAILED ACTION

Response to Amendment

1. This action is in response to the amendment dated 10 December 2004 in application 09/772,288.

The objection to the drawings and claims 1, 12, 25, and 30 are now withdrawn in view of the amendments. Furthermore, the 35 U.S.C. 112, second paragraph, rejection of claims 12 and 25 are now withdrawn in view of the amendments.

It is noted that the applicant amended the specification to make minor grammatical changes and update serial numbers of patent applications.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7, 9-20, and 22-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klemets et al. (US20010013068A1) in view of Towell et al. (US006647411B2).

Regarding claim 1, Klemets et al. (Klemets) discloses a system for steaming multiple multimedia streams for synchronized transmission over a computer network for a video-on-demand (VOD) system that performs the method of "preprocessing content for a stream caching server in an interactive information distribution system" (See Fig. 2

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and 3A). The method includes "retrieving content in a first subscriber terminal" (See Fig. 2 Production Station; paragraph 0044) and inherently "encapsulating content in accordance to an Internet Protocol (IP) format" in order to successfully "upload the content to a http server coupled to an access network" (See Fig. 2 stream server and Internet). However, Klemets does not disclose a method for (1) "transcoding retrieved content into a plurality of MPEG packets" and (2) "transmitting encapsulated content for storage in a stream caching server".

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- (1) Klemets does disclose that the retrieved multimedia data or "content" is compressed (See paragraphs 0045 and 0046). Official Notice is taken that it is well known to compress data into a "plurality of MPEG packets" or "transcode content into a plurality of MPEG packets". Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the production station and producer software disclosed by Klemets to "transcode" multimedia data "into a plurality of MPEG packets" in order to provide data that adheres to a well established and used compression thereby increasing the compatibility with other systems.
- (2) Towell et al. (Towell) discloses a secure cached subscription service for use within a VOD system. The system includes a caching device or "caching server" that is able to store movies or television shows that are most likely to be requested by a user. The movies and television shows are downloaded from a content provider or "transmitting encapsulated content for storage in a stream caching server" (See Fig. 1A and Fig. 3; column 3 line 63 column 4 line 13). Furthermore, the caching device can be implemented in various networks (See column 3 lines 46-51), wherein the use of IP

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protocol is well known in the art. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the VOD system disclosed by Klemets to incorporate an additional caching device or "stream caching server" to store and stream the "transmitting encapsulated content", as taught by Towell, in order to reducing the amount of time it takes to respond to a user's request for video data.

Regarding claim 2, Klemets in view of Towell also disclose that the production station uses producer software to perform the functions of "initiate said retrieving, said transcoding and said uploading" (See Klemets Fig. 3A; paragraph 0043-0046). However, Klemets in view to Towell does not disclose "downloading an applet to first subscriber terminal from a http server".

Klemets does disclose a method where terminals are inherently able to download modules or "applets" from a server and install the module within a web browser (See Klemets paragraphs 0059 and 0060). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the production station, producer software and stream server or "HTTP server" disclosed by Klemets in view of Towell to be able to "download an applet to first subscriber terminal from a http server", as taught by Klemets, in order to provide an easy means to expand and easily upgrade the software thereby providing the latest software for the user.

Regarding claim 3, Klemets in view of Towell further discloses that users of the client machine is able to skip forward or backwards to predetermined locations in the video/audio streams (See Klemets paragraph 0071), where inherently the VOD system

creates "metadata comprising indexing information used by stream caching server in response to a command provided by a user viewing said content at a second subscriber terminal" in order to successfully carry out the user's command (See Klemets Fig. 2 client computer). However, Klemets in view of Towell does not disclose that the "metadata is uploaded with the content".

Official notice is taken that it is well known to upload additional data, i.e. "metadata", with the multimedia data. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the multimedia streams of the VOD system disclosed by Klemets in view of Towell to "upload metadata with the contents" in order to provide all the information needed for the video data thereby reducing the time it takes the VOD system to respond to requests and commands from the user.

Regarding claim 4, Klemets in view of Towell does not disclose that the "metadata is encapsulated with transcoded content in IP format".

However, Klemets does disclose that the additional data, i.e. annotation streams, can be combined with the video and audio streams or multimedia data or "metadata is encapsulated with transcoded content" (See Klemets paragraph 0073), which is inherently in IP format in order to be successfully sent through the Internet (See Klemets Fig. 2). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the IP packets and multimedia data disclosed by Klemets in view of Towell to include "metadata that is encapsulated with

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transcoded content in IP format", as taught by Klemets, in order to provide a more efficient means of transporting data to the server.

Regarding claim 5, the client computer allows the users to submit "commands" that skip forward or "fast forward" and backwards or "rewind" by use of a table of contents that inherently makes use of "bookmarks" (See Klemets paragraph 0071).

Regarding claim 6, the retrieved multimedia data or "content" by the production station is an AVI file (See Klemets paragraph 0044).

Regarding claim 7, the "plurality of MPEG packets" disclosed by Klemets in view of Towell are inherently placed in the payload of an IP packet in order to be successfully sent through the Internet (See Klemets Fig. 2, Internet).

Regarding claim 9, Klemets in view of Towell does not disclose that the "plurality of MPEG packets comprises a plurality of one of a MPEG-2 packet and a MPEG-4 packet".

Official Notice is taken that is well known to use MPEG-2 and MPEG-4 packets. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the MPEG packets disclosed by Klemets in view of Towell to be MPEG-2 or MPEG-4 packets in order to provide data that adheres to a well established and used compression thereby increasing the compatibility with other systems.

Regarding claim 10, the "IP formatted content is retrieved from" the caching device (See Klemets Fig. 2 and Towell Fig. 1A and Fig. 3), which is inherently "in response to a request for content from a second subscriber terminal" (See Klemets Fig.

2, client computer), and is streamed via Internet that serves as a "distribution network" and as well as a "access network to second subscriber terminal" (See Klemets Fig. 2; Servers, Internet, and client computer).

Regarding claim 11, Klemets in view of Towell further disclose that the caching device or "stream caching server" can request a movie, which is inherently "IP formatted content" in order to be sent through the Internet (See Klemets Fig. 2 and Towell column 3 lines 47-51), to be downloaded from the content provider or stream server and stored on the caching device or "IP formatted content is retrieved from said streaming cache server in response to a request for content from another stream cache server, and streamed to from said caching server to that other caching server" (See Towell Fig. 1A and Fig. 1B; column 4 lines 3-5 and 18-21).

Regarding claim 12, Klemets in view of Towell further disclose that retrieving and streaming the movies or also known as "content" is only allowed if the "user of a second subscriber terminal" provides a correct password to the content provider or stream server or "HTTP server" (See Towell column 6 lines 35-47), where inherently the user identification and password are "configured" by an operator of the content provider or designer of the production station or "by a user of said first subscriber terminal" (See Klemets Fig. 2, designer and production station).

Regarding claim 13, the "access network" is a local area network or a wide area networks (See Klemets paragraph 0008).

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Claim 14 contains the limitations of claim 1 (wherein the production station is the "first subscriber terminal" and also serves the function of a "digital link") and is analyzed as previously discussed with respect to that claim.

Claim 15 contains the limitations of claims 2 and 14 (where the producer software provides a "user interface" (See Klemets Fig. 7)) and is analyzed as previously discussed with respect to those claims.

Claim 16 contains the limitations of claims 2 and 15 and is analyzed as previously discussed with respect to those claims.

Claim 17 contains the limitations of claims 3 and 14 and is analyzed as previously discussed with respect to those claims.

Claim 18 contains the limitations of claims 4 and 17 and is analyzed as previously discussed with respect to those claims.

Claim 19 contains the limitations of claims 5 and 17 and is analyzed as previously discussed with respect to those claims.

Claim 20 contains the limitations of claims 7 and 14 and is analyzed as previously discussed with respect to those claims.

Claim 22 contains the limitations of claims 9 and 14 and is analyzed as previously discussed with respect to those claims.

Claim 23 contains the limitations of claims 10 and 15 and is analyzed as previously discussed with respect to those claims.

Claim 24 contains the limitations of claims 11 and 14 and is analyzed as previously discussed with respect to those claims.

Claim 25 contains the limitations of claims 12 and 14 and is analyzed as previously discussed with respect to those claims.

Claim 26 contains the limitations of claims 13 and 14 and is analyzed as previously discussed with respect to those claims.

Claim 27 contains the limitations of claims 1 and 2 (wherein the system performs the method and the production station is also considered the "client") and is analyzed as previously discussed with respect to those claims.

Regarding claim 28, Klemets in view of Towell does disclose an authentication device that is able to authenticate a user to see if the user has access to the movies stored on the server as discussed in claim 12 above. However, Klemets in view of Towell does not disclose "uploading to server access rights associated with encapsulated data".

Official Notice is taken that it is well known to upload "access rights" for content stored on the server. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the VOD system and servers disclosed by Klemets in view of Towell to "upload to server access rights associated with encapsulated data" in order to provide a means for the provider to protect their data from unauthorized users and illegal use.

Regarding claim 29, Klemets in view of Towell disclose that the "access rights" is a "password protection scheme" as discussed in claim 12 above (Also See Towell column 6 lines 35-47).

Claims 8, 21, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klemets et al. (US20010013068A1) in view of Towell et al. (US006647411B2) as applied to claims 1-7, 9-20, and 22-29 above, and further in view of Mimura et al. (US006557031B1).

Regarding claim 8, Klemets in view of Towell does not disclose that the "plurality of MPEG packets is contained in a payload of a Realtime Transfer Protocol (RTP) packet contained in a payload of an IP packet".

Mimura et al. (Mimura) discloses a system for streaming video data. Mimura discloses that it is well known to encapsulate multiple MPEG packets within a RTP packet that is contained in the payload of an IP packet (See Fig. 11 and column 2 lines 28-54). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the VOD system, MPEG packets, and IP packets disclosed by Klemets in view of Towell to have the "plurality of MPEG packets contained in a payload of a Realtime Transfer Protocol (RTP) packet contained in a payload of an IP packet", as taught by Mimura, in order to prevent degradation of resolution of the video data caused by transmission delay.

Claim 21 contains the limitations of claims 8 and 20 and is analyzed as previously discussed with respect to those claims.

Claim 30 contains the limitations of claims 1 (wherein the multimedia data is encapsulated in an IP format adapted for the Internet), 8 (wherein the multimedia data is within a RTP packet contained in a IP packet), and 26 and is analyzed as previously discussed with respect to those claims.

3. Applicant's arguments filed on 10 December 2004 have been fully considered but they are not persuasive.

Applicant argues with respect to claims 1, 14, and 27 that Klemets in view of Towell fails to disclose, "uploading said transcoded content to a http server coupled to an access network" and "transmitting said encapsulated content for storage in said stream caching server". Applicant further extends these arguments to claims 2-8, 3-13, 15-26, and 28-30. However, Klemets does disclose uploading compressed content to a stream server or "http server" in order to provide the content to various client computers (See Fig. 2; paragraph 0062). Furthermore, it is well known to use MPEG format to transport contents over a network. Therefore, the production station disclosed by Klemets would "transcode" the contents into MPEG format and transmit the contents to the stream server or "uploading said transcoded content to a http server coupled to an access network".

Towell suggests providing multiple caching devices or "stream caching server" that would serve information to various users (See Figs. 1a and 1b). Movies are downloaded from a content provider server (e.g. the stream server disclosed Klemets) to one of the caching devices or "stream caching server" (See column 4 lines 5-16). Therefore, Klemets in view of Towell is able to "transmit encapsulated content for storage in said stream caching server" via the Internet (See Klemets Fig. 2).

Respectfully, Klemets in view of Towell and Examiners' Official Notice meets all the limitations recited by claims 1, 14, and 27.

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Applicant is reminded that although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph G. Ustaris whose telephone number is 571-272-7383. The examiner can normally be reached on M-F 7:30-5PM; Alternate Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on 571-272-7950. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JGU

May 11, 2005

VIVEK SRIVASTAVA PRIMARY EXAMINER